

An Introduction to the GENIUS portal

INFN, Catania



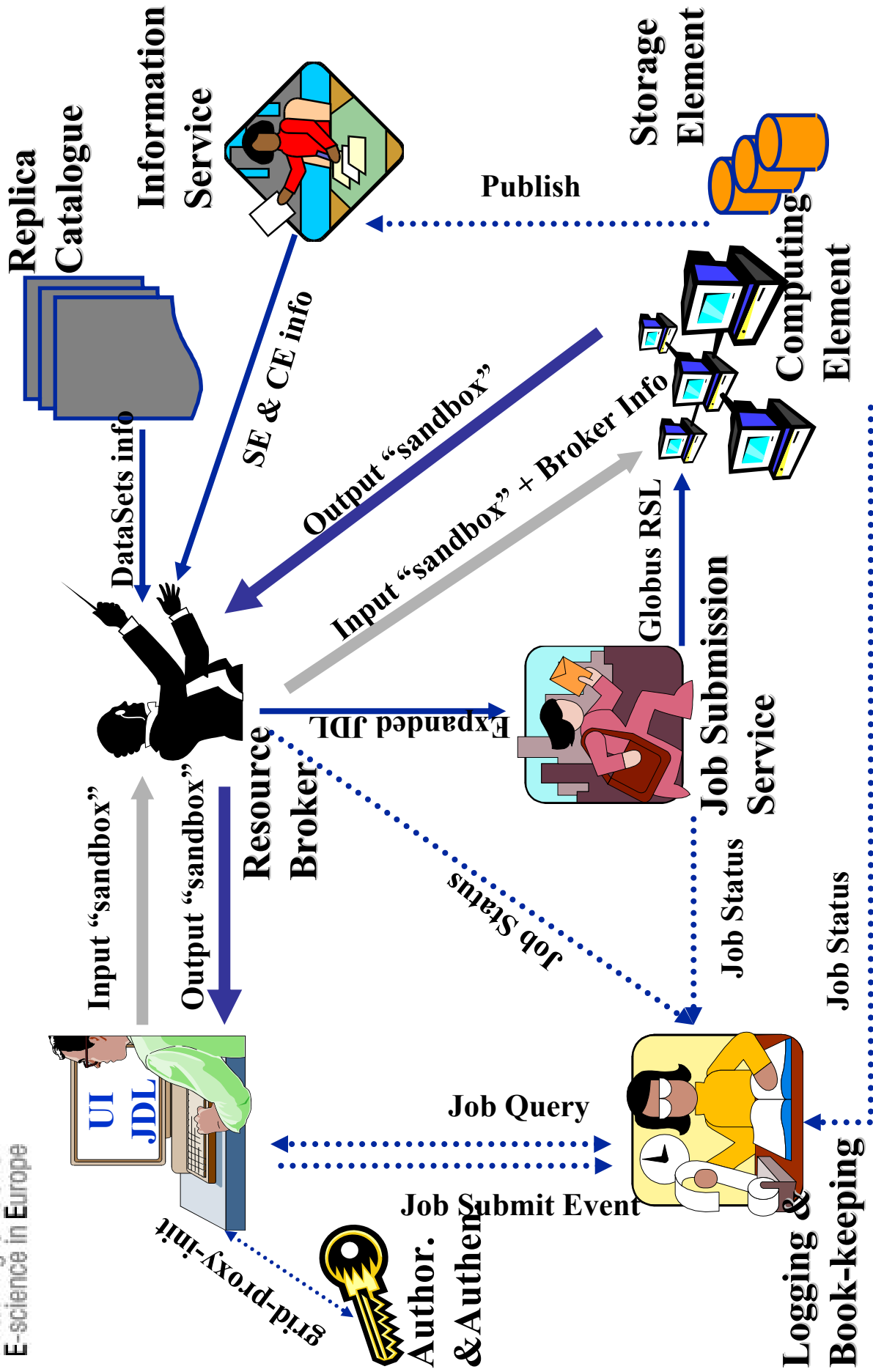
EGEE is funded by the European Union under contract IST-2003-508833

- Why use portals?
- The GENIUS Portal
- Summary and conclusions

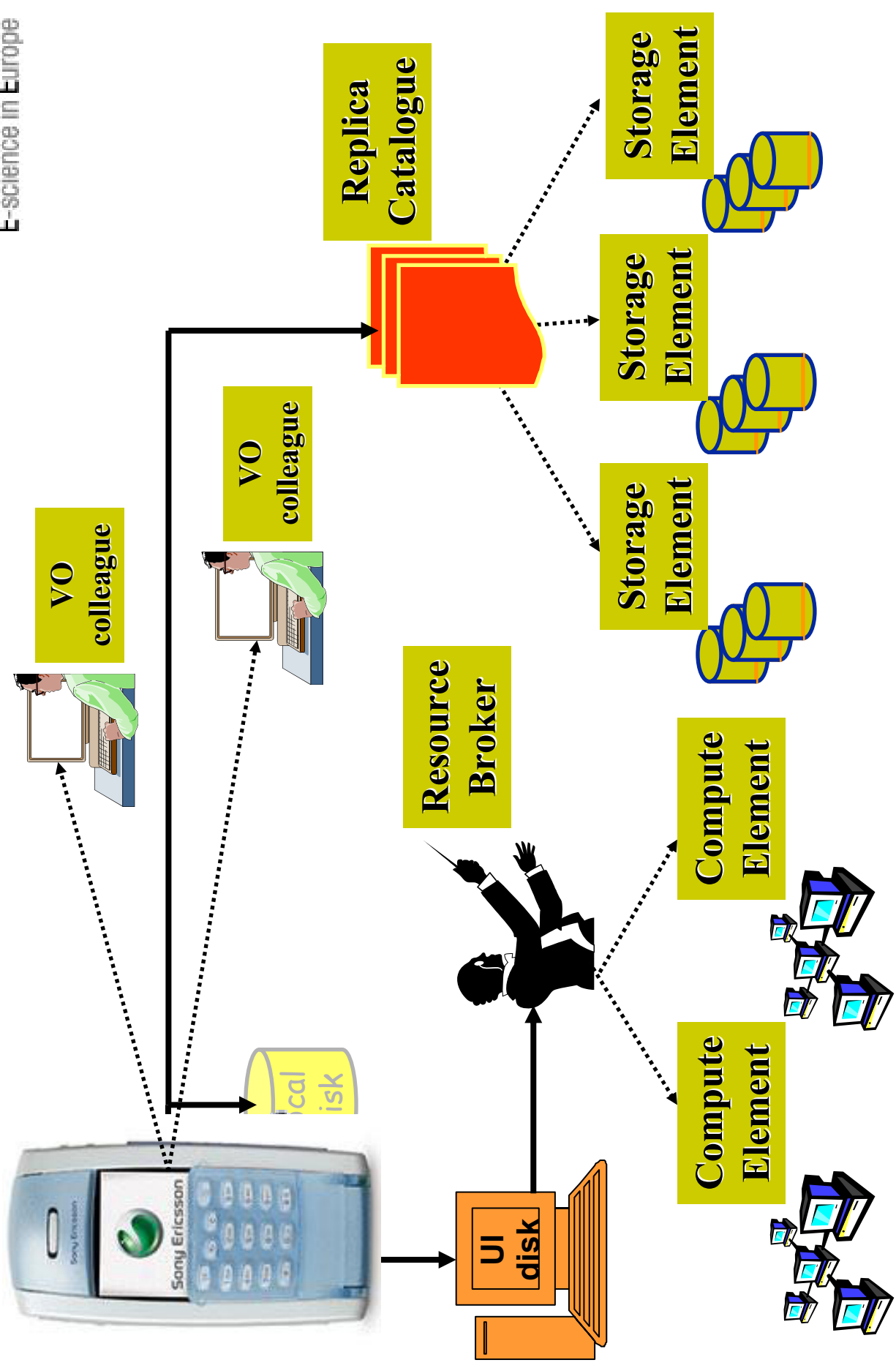
A web portal: why and how ?

- It can be accessed from everywhere and by “everything” (desktop, laptop, PDA, phone).
- It can keep the same user interface independently of the underlying middleware.
- It must be redundantly “secure” at all levels: **1)** secure for web transactions, **2)** secure for user credentials, **3)** secure for user authentication, **4)** secure at VO level.
- All available grid services must be incorporated in a logic way, just “one mouse click away” .
- Its layout must be easily understandable and user friendly.

Job workflow



The "transparent" grid access



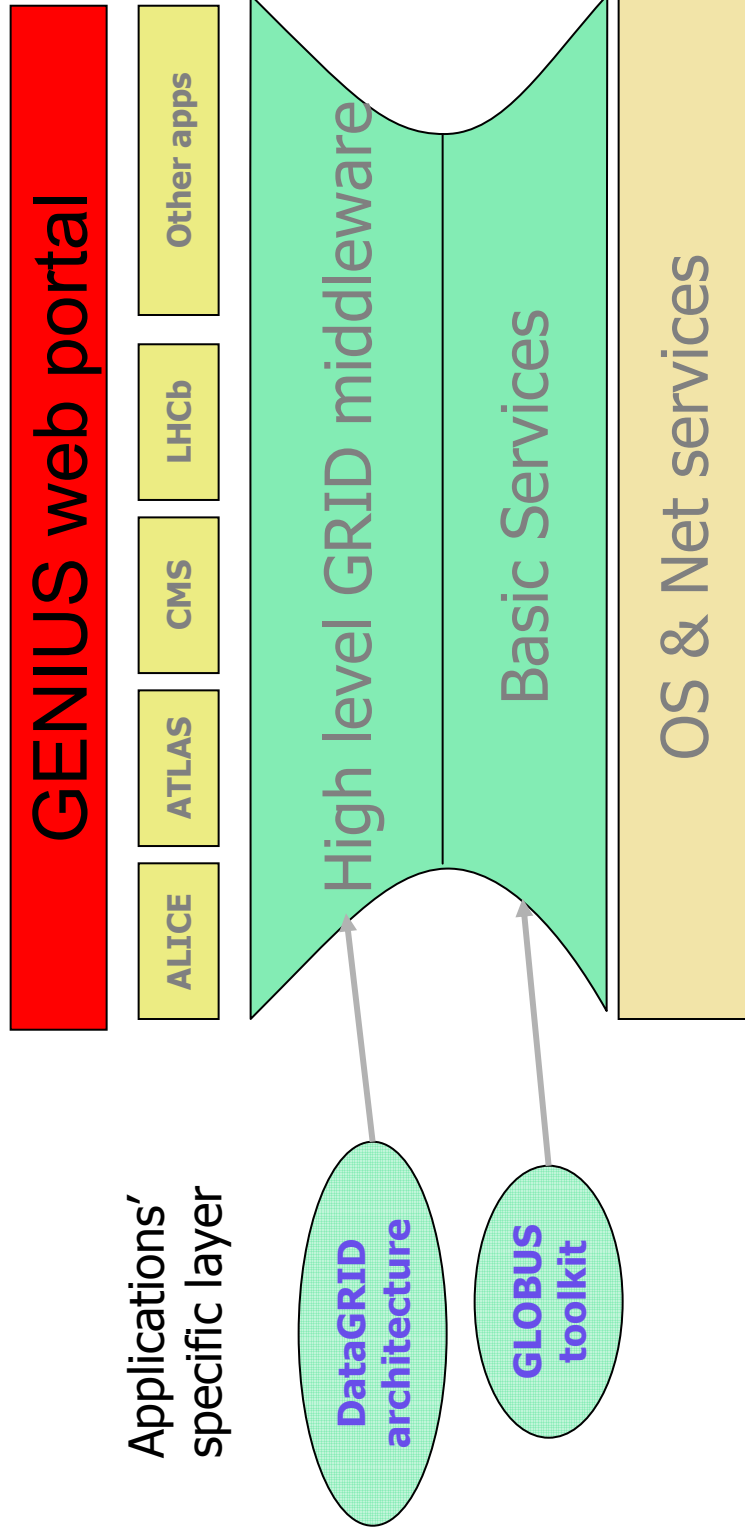


GENIUS[®]

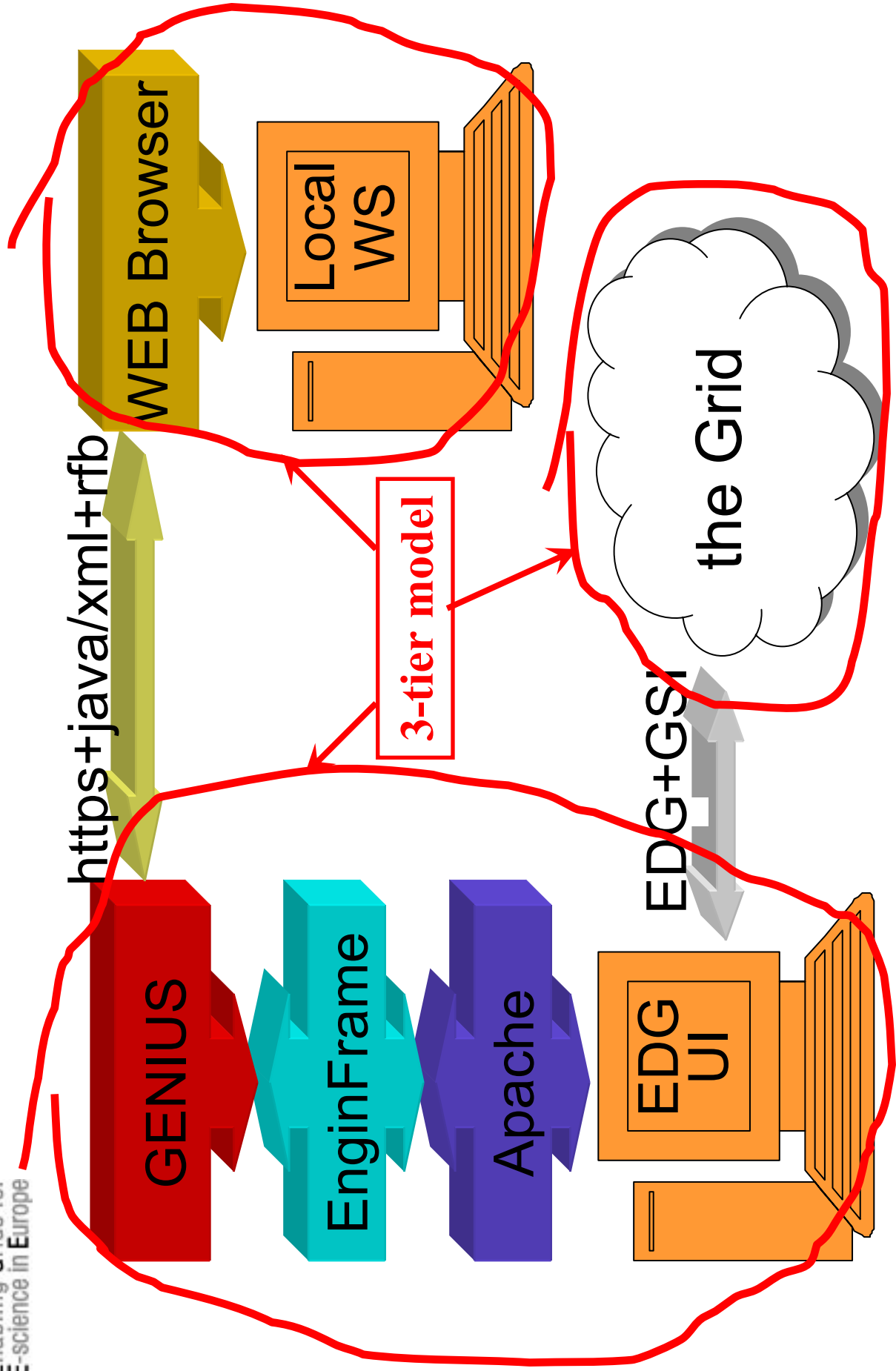
(**G**rid **E**nabled web **eN**vironment for
site **I**ndependent **U**ser job **S**ubmission)

[<https://genius.ct.infn.it>]

INFN/NICE collaboration



GENIUS: how it works



GENIUS home page



The screenshot shows a Mozilla browser window displaying the GENIUS home page. The browser's address bar shows the URL `https://genius.ct.infn.it/`. The page features a navigation menu on the left with links to File Services, Security Services, Job Services, Data Services, Info Services, Monitoring Services, Interactive Services, Grid Settings, Set VO, Current VO Services, Statistics, and Logout. A footer section mentions the site is powered by EnginFrame 3.2, compliant with LCG-2 and GRID.IT. The main content area includes the GENIUS logo, the ENGINFRAME logo, and a welcome message for GENIUS 2.8.3. A list of links provides access to important notices, user guides, authentication instructions, installation guides, mailing lists, and archives. A final paragraph notes the portal's compatibility with Mozilla 1.6, Netscape 4.79, 4.80, 6 and higher, and Internet Explorer 5 or higher, and states the last update was on Fri 2 Apr 2004.



Grid Enabled web eNvironment for site Independent User job Submission

Welcome to GENIUS 2.8.3

Important Notice

GENIUS User's Guide (doc, pdf, ps, ps.gz)

New Grid Authentication with MyProxy

GENIUS MyProxy Server Installation

GENIUS CVS Available

GENIUS Mailing List

GENIUS Mailing Archive (Help on Maiordomo Commands)

GRID MOVIE

Useful Links

Credits

This portal is best viewed with Mozilla 1.6.

Netscape (4.79, 4.80, 6 and higher) and Internet

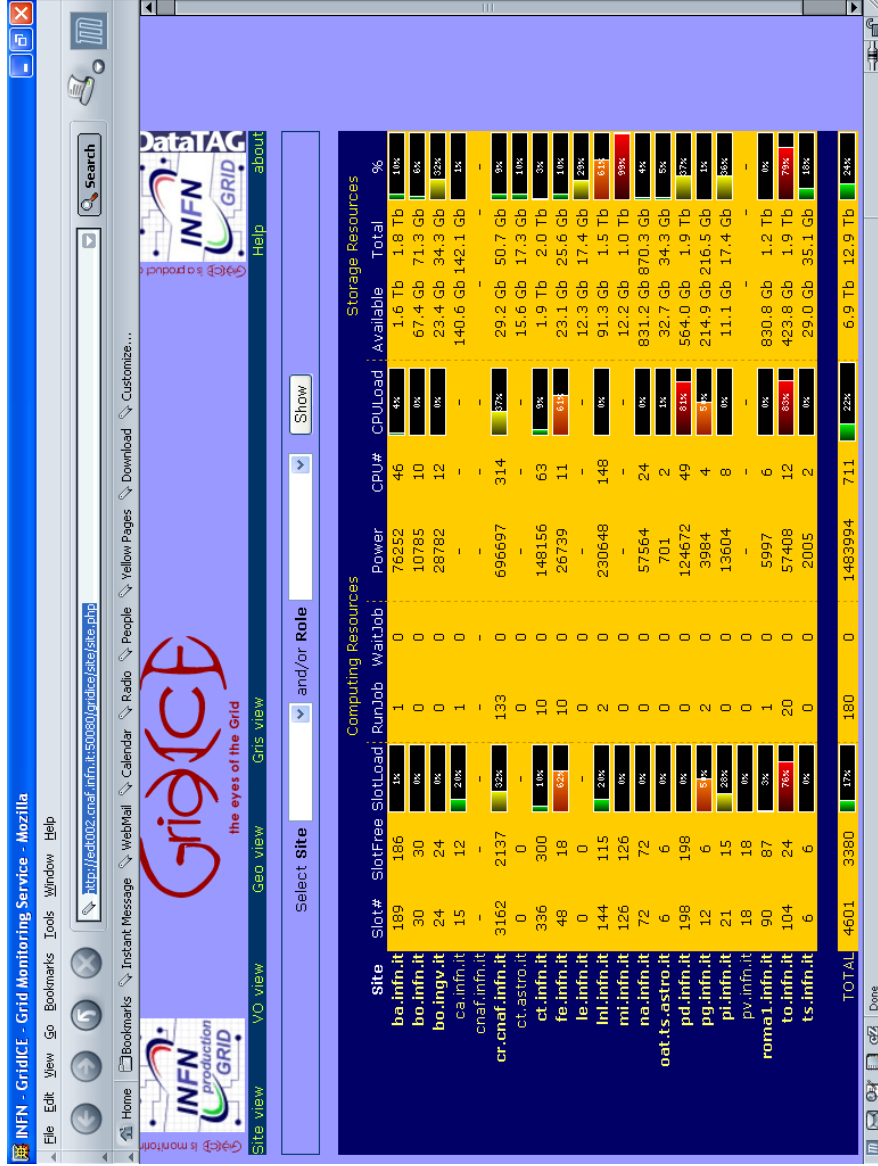
Explorer (5 or higher) can also be used.

The use of any other web browsers could induce some visualization mismatches and is not currently suggested.

GENIUS is based on Apache 1.3.29 and OpenSSL 0.9.7c.

Last update: **Fri 2 Apr 2004**

GENIUS monitoring services

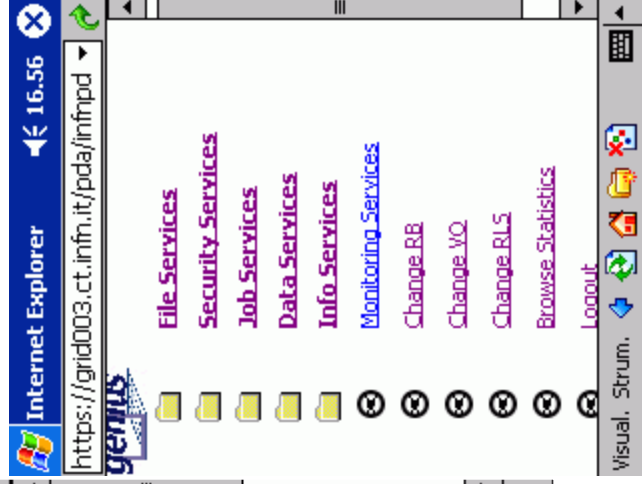


GENIUS for PDA (1/2)

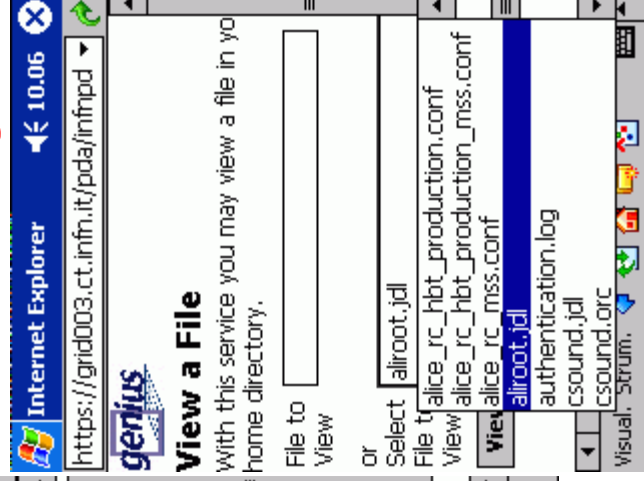
Home Page



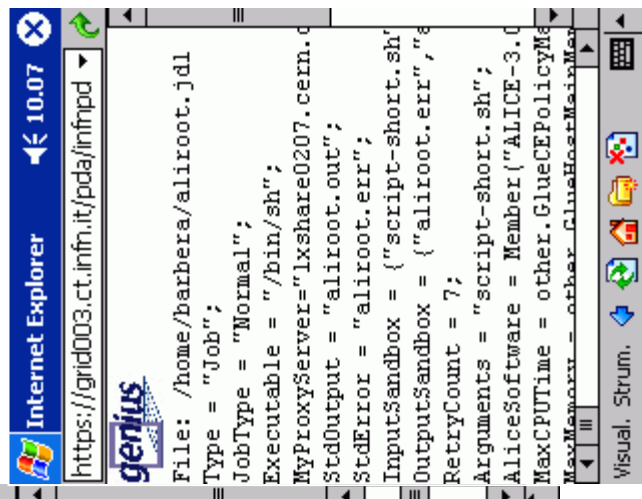
Services



Remote file browsing



Remote file inspection



eGEE GENIUS for PDA (2/2)

Enabling Grids for
E-science in Europe

Job submission

Internet Explorer 11.32
https://grid003.ct.infn.it/pda/infnpd

Job Submission

Please, select a JDL file to submit.

JDL File

- /home/barbera/csound.jdl
- /home/barbera/allroot.jdl
- /home/barbera/csound.jdl
- /home/barbera/demtools.jdl
- /home/barbera/hostname.jdl
- /home/barbera/hostname1.jdl
- /home/barbera/povray_deficity.jdl

RB: [Next]

Job monitoring

Internet Explorer 13.19
https://grid003.ct.infn.it/pda/infnpd

Job Queue

#	Job ID	JDL Name	Last Update	Destination	Status	Exit Code	Action
4	bYqRSTINJoW6xOuwrzYkRG	/home/barbera/hostname.jdl	Thu Oct 9 07:52:14 2003	testbed001.cnaf.infn.it:211pbs-medium	Done	0	Get Output

RC browsing

Internet Explorer 11.24
https://grid003.ct.infn.it/pda/infnpd

Current directory is /

- [data.prova](#)
- [data.out](#)
- [data.out1](#)
- [data.out2](#)
- [data.out3](#)
- [datatest](#)
- [datatest1](#)
- [edlog.log](#)
- [hostname.out](#)

GridICE integration

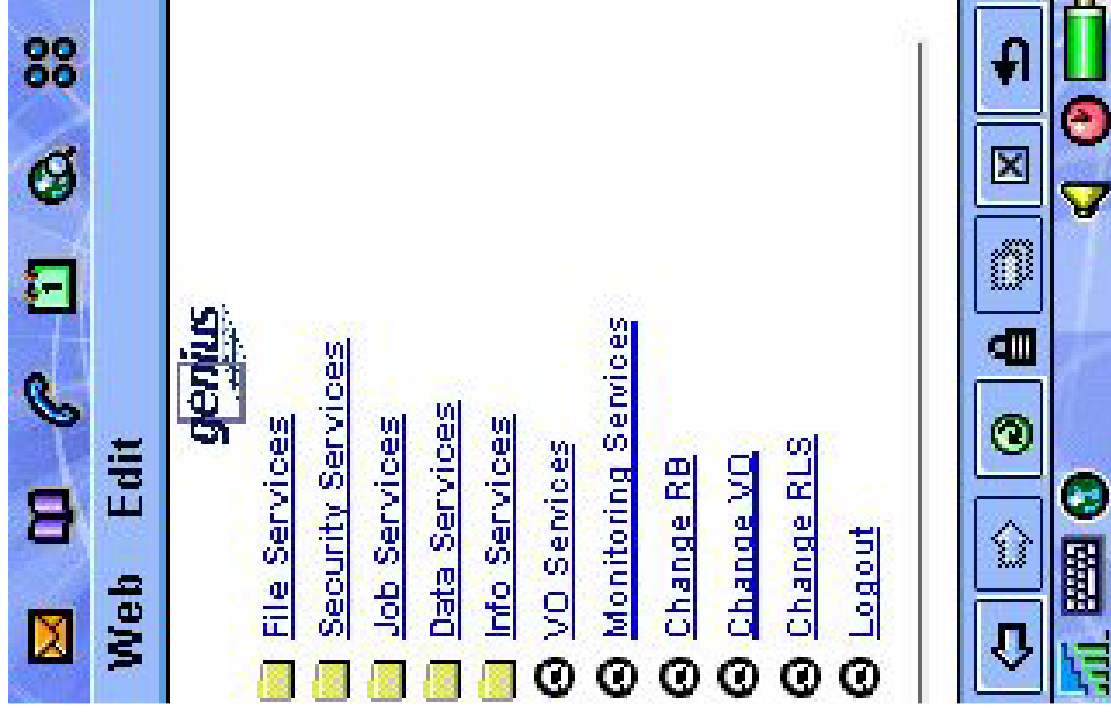
Internet Explorer 17.09
http://edt002.cnaf.infn.it:8081/grid

JOB Load

Site	Computing power
ba.infn.it	3064
bo.ingv.it	4797
ct.infn.it	2798
fe.infn.it	21942
inl.infn.it	2903
mi.infn.it	3972
na.infn.it	n/a
pd.infn.it	60166
to.infn.it	n/a
ts.infn.it	n/a

eGEE GENIUS for cell phone

Enabling Grids for
E-science in Europe





Enabling Grids for
E-science in Europe

Summary and conclusions

Let's go to the practical !